

ABSTRACT

A phosphor element (10) of the present invention includes a pair of electrodes (2, 6) facing each other, and a phosphor layer (4) interposed between the pair of electrodes and including a semi-conductive phosphor fine particle (7) in which at least a part of the surface is covered with a conductive organic material (8). The conductive organic material is preferably chemically adsorbed on the surface of the semi-conductive phosphor fine article. Further, it is preferable that electron transport layers (3, 5) be further provided between the phosphor layer and at least one of the electrodes.